

WHAT IS CLAIMED IS:

1 1. A method for monitoring authentication performance in
2 a wireless communication network, comprising the steps of:

3 sending an authentication report order message to a mobile
4 switching center in said wireless communication network, said
5 authentication report order message including at least one
6 authentication parameter;

7 determining whether an access request made to said wireless
8 communication network is authenticated based on said at least
9 one authentication parameter; and

10 if said access request is authenticated based on said at
11 least one authentication parameter, said mobile switching center
12 transmitting an authentication report.

13 2. The method of Claim 1, further comprising the step of
14 said mobile switching center transmitting an acknowledgment
15 message responsive to said authentication report order message.

1 3. The method of Claim 1, wherein said authentication
2 report order message comprises a Global Challenge Report
3 Directive message.

4 4. The method of Claim 3, wherein said Global Challenge
5 Report Directive message is formatted in accordance with an
6 ANSI-41 protocol.

7 5. The method of Claim 1, wherein said authentication
8 report order message comprises an ANSI-41 Registration
9 Notification Return Result message.

10 6. The method of Claim 1, wherein said authentication
11 report order message comprises an ANSI-41 Qualification
12 Directive message.

1 7. The method of Claim 1, wherein said authentication
2 report order message comprises an ANSI-41 Authentication
3 Directive message.

4 8. The method of Claim 2, wherein said acknowledgment
5 message comprises a Global Challenge Report Directive Response
6 message.

7 9. The method of Claim 1, wherein said authentication
8 report comprises a Global Challenge Report message formatted in
9 accordance with an ANSI-41 protocol.

10 10. The method of Claim 1, wherein said authentication
11 report comprises an ANSI-41 Authentication Status Report
12 message.

13 11. The method of Claim 1, wherein said wireless
14 communication network comprises an ANSI-41 network.

1 12. The method of Claim 1, wherein the transmitting step
2 comprises transmitting said authentication report to an external
3 network node.

SECRET EXCERPT

1 13. A system for monitoring authentication performance in
2 a wireless communication network, comprising:
3 a mobile switching center associated with said wireless
4 communication network;
5 an external network node, said external network node
6 coupled to said mobile switching center by an inter-network
7 transmission interface;
8 means for sending an authentication report order message to
9 said mobile switching center, said authentication report order
10 message including at least one authentication parameter; and
11 means for determining whether an access request made to
12 said wireless communication network is authenticated based on
13 said at least one authentication parameter, said mobile
14 switching center including means for transmitting an
15 authentication report if said access request is authenticated
16 based on said at least one authentication parameter.

1 14. The system of Claim 13, wherein said mobile switching
2 center further comprises means for transmitting an
3 acknowledgment message responsive to said authentication report
4 order message.

5 15. The system of Claim 13, wherein said authentication
6 report order message comprises a Global Challenge Report
7 Directive message.

8 16. The system of Claim 13, wherein said authentication
9 report order message comprises a Global Challenge Report
10 Directive message formatted in accordance with an ANSI-41
11 protocol.

12 17. The system of Claim 13, wherein said authentication
13 report order message comprises an ANSI-41 Registration
14 Notification Return Result message.

1 18. The system of Claim 13, wherein said authentication
2 report order message comprises an ANSI-41 Qualification
3 Directive message.

4 19. The system of Claim 13, wherein said authentication
5 report order message comprises an ANSI-41 Authentication
6 Directive message.

7 20. The system of Claim 14, wherein said acknowledgment
8 message comprises a Global Challenge Report Directive Response
9 message.

10 21. The system of Claim 13, wherein said authentication
11 report comprises a Global Challenge Report message formatted in
12 accordance with an ANSI-41 protocol.

1 22. The system of Claim 13, wherein said authentication
2 report comprises an ANSI-41 Authentication Status Report
3 message.

4 23. The system of Claim 13, wherein said wireless
5 communication network comprises an ANSI-41 network.

6 24. The system of Claim 13, wherein said means for
7 transmitting comprises means for transmitting said
8 authentication report to said external network node.